

Research VP Heads Physics Research Survey

Hey, man, what's happening?

If the query concerns the world of recent physics research, Bill Brinkman, VP Research 1000, is the person to ask.

For the last three years, Bill has headed a committee of physicists from major universities and laboratories all over the country. His committee served as overseer for specialized committees that produced a series of eight tutorial handbooks, collectively entitled *Physics Through the 1990s*. The books encapsulate recent achievements in elementary-particle physics; atomic, molecular and optical physics; gravitation, cos-

'It was a fascinating experience and an intellectual challenge.'

mology and cosmic-ray physics; nuclear physics; condensed-matter physics; plasmas and fluids; scientific interfaces and technological applications, and an overview.

"It was a fascinating experience and an intellectual challenge," says Bill. "I think the accomplishments being made around the country impressed all of us. I am especially impressed with the advances in elementary-particle physics and in the physics of increasingly complex systems, such as glass and crystal surfaces. And the fascinating relationships that have developed among ideas in cosmology, elementary-particle physics, and condensed-matter physics are truly revolutionizing our view of the universe."

Physics Through the 1990s is, in a sense, a sequel to *Physics in Perspective*, published in 1972. The latter emphasized quantifiable areas

'Electronics and computer science are not the only interesting challenges. Physics is just as exciting.'

such as demographics, institutions, publications, etc. The new series emphasizes the progress in research—and it's deliberately written in a style designed to interest bright college students in physics research. "Electronics and computer science are not the only interesting challenges," Bill points out. "Physics is just as exciting."

Another reason for the shift in emphasis from the 1972 publication to the current one is a shift in public attitude toward science. According to Bill, the earlier book had to address the issues it did because it came out during a period, the early 70s, when Viet Nam and environmental issues had turned many people against science in general.

"Now we're seeing a recovery," says Bill. "Most people are basically pro-science, but we're still not back to the levels of funding we consider appropriate."

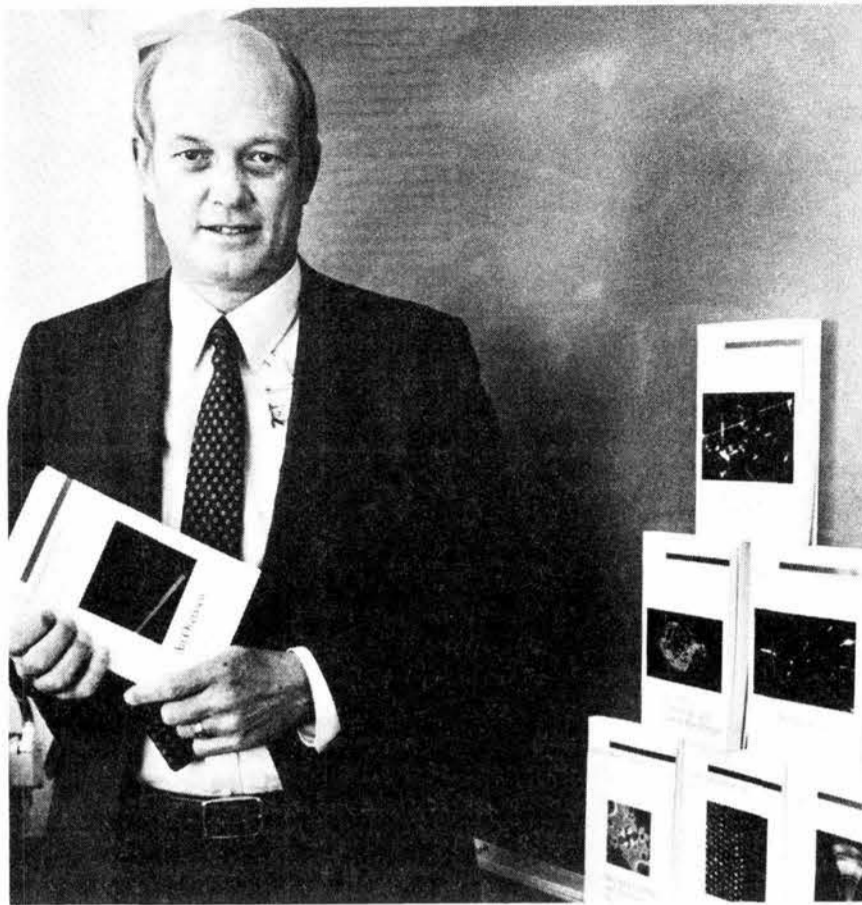
"We hope our series of books will assist in

'What we have as a nation that sets us apart from other nations is a knack for technological innovation. And much of that innovation is based on our strong basic research.'

that recovery. After all, what we have as a nation that sets us apart from other nations is a knack for technological innovation—and much of that innovation is based on our strong basic research. We need to attract and develop the new talents that can enable us to move forward."

The committee has some other goals as well. One is to assure the health of "small science" research carried out, typically, by a university professor and his or her group. "Such groups have been remarkably productive and innovative, receiving a reasonably large number of No-

(Continued on Page Four)



RESEARCH VP Bill Brinkman (1000) shows off a new series of handbooks on recent research in physics around the U.S. Bill headed a committee of top physicists that produced the series, collectively titled *Physics Through the 1990s*.



LAB NEWS

VOL. 38, NO. 8 SANDIA NATIONAL LABORATORIES APRIL 25, 1986

An Interview with President Welber

Rumors vs. Realities

Editor's Note: Gramm-Rudman-Hollings legislation, covered in our State of the Budget article in January, is stirring layoff rumors at the Labs. LAB NEWS recently asked Irwin Welber for a few quick comments on the subject.

LN: We were a bit reluctant to ask for comments after your recent encounter with the press in Livermore.

IW: Yes, a headline said "Sandia Chief Forecasts Layoffs in '87." It was retracted, but I don't think anyone noticed.

LN: Livermore doesn't have a monopoly on layoff rumors. How about these:

- *Two Sandians overheard at the Credit Union solemnly agree that layoffs are a matter of "when" not "whether."*

- *A supplier reports that a Sandian told him the Labs plans to lay off "500 employees in each of the next three years."*

- *A secretary we know received a confidential tip from a colleague that Sandia will stimulate retirements with a "5-5-1" plan (add five years to an employee's 'age' and tenure, plus a year's salary).*

- *A more modest proposal making the rounds reduces the package to 3-3-1.*

IW: I'm flattered that folks think we've figured out the exact effect of GRH on Sandia and have devised a precise program to cope with it. In fact, no one knows what the future impact of Gramm-Rudman will be; a lot of people in Washington and elsewhere still don't think it will ever go into effect.

LN: Meanwhile at Sandia...?

IW: We've suspended hiring and are watching our expenditures very carefully.

LN: FTEs?

IW: We'll be about 8300 at the end of April and, if we don't resume hiring, we'll end FY86 with about 8160. That would give us an average of 8265 for the year, well below the 8420 average we had planned pre-GRH.

LN: How about '87?

IW: If we don't resume hiring, FTEs would drift all the way down to 7700 by September of '87.

LN: Will that happen?

IW: Very, very unlikely. In fact, I'm sure we'll have to hire some people. We again expect to have more than \$900 million worth of work to do, and that will probably take more than 8000 people.

LN: Can employment be turned on and off smoothly?

IW: That's our biggest problem right now — matching employees to the work that must be done. We think we've got a handle on that problem, but it will continue to take the complete cooperation of employees and management.

LN: More work than we can handle?

IW: No, but there's no shortage either. And that's not surprising. We've special capabilities and a reputation for very good work, so sponsors return to us even when funds are tight.

It's also worth remembering that during past good times we grew very conservatively — manpower went up only 1.5 percent from 1981-86. So we were running lean even before GRH.

LN: So, what's your best guess for the future?

IW: I hope we can resume hiring at a normal rate next year.

Antojitos

On the Blind Worship of Scratch The Sandians who are invited to read this column are those who are married to spouses who also have full-time jobs somewhere. Single people may, if they wish, also read it. But this column is not to be read by those who have a spouse who spends each workday at home planning and executing elegant dinner menus. If you're in the latter category, feel smug, stop reading right here, and go on to the ads--maybe you'll find a good deal on a Library of Terribly Impressive Recipes Featuring Little Known Ingredients, Demanding an Arsenal of Culinary Gadgets, and Providing 10 Seconds of Gustatory Pleasure for Each Hour Invested in Preparation.

There. Today's diatribe is devoted to the proposition that too many working folks believe that it's somehow unhealthy, unethical, and unAmerican to fix food fast. Some, mostly the married females, I suspect, actually feel guilt if they don't extend their work day by two hours doing penance (over a Cuisinart and a hot oven) for being away from home all day.

Except for Significant Social Occasions once in a while (or unless your favorite relaxation is molding menus into meals), dinner ought to take no longer to fix than it does to eat, and it ought to dirty no more dishes than can be inconspicuously tucked away in the corner of a small sink. No, this is not an ad for microwave ovens, but their speed and the fact that you can fix the food right on the plate you'll eat it off of mean that, in our kitchen, the microwave receives the devotion of a shrine.

Understand, I'm not arguing against nutritional foods or balanced diets. And I'm not arguing for TV dinners or empty additives (though, personally, I miss my cyclamates). I'm just saying that "Really, worker bees, it's okay not to spend the majority of your free time orchestrating exotic concoctions. You can stay just as alive and healthy on quick fixes--and have time left over to enjoy." ●BH

* * *

Panza llena, corazón contento. (Full stomach, contented heart.)



HALLEY'S COMET has escaped the view of many and has disappointed most who have seen it. It has earned the nickname Halley's Fuzzball by those who feel cheated by their grandparents' stories of its spectacular show 76 years ago. The comet is not as bright as it was on its last voyage near the Earth, but just wait—one more disappointing visit in 2061, but in 2138 it should be up to full brightness. This photograph, by LAB NEWS photographer Randy Montoya, was taken near Las Cruces on April 13 at 12:30 a.m. with a 35mm camera and a 105mm lens mounted on a tripod. He used Tri-X film rated at ASA 2400; the exposure was one second at f2.5. The long exposure caused the stars to appear as streaks, thanks to the Earth's rotation.

Events Calendar

April 25-27 — Spring Arts and Crafts Expo '86 (175 artists and craftsmen); 10 a.m.-8 p.m. Fri., 10 a.m.-6 p.m. Sat., 10 a.m.-5 p.m. Sun.; Exhibit Hall, State Fairgrounds, 821-0120.

April 25 — UNM Opera Studio, scenes from "Thais," "Ballad of Baby Doe," and "Ariadne auf Naxos"; free admission; 8:15 p.m., Keller Hall.

April 25, 27, & 29, May 3 — "Faust," Albuquerque Opera/Opera Southwest; 8 p.m., 2 p.m.

matinee on April 27; KiMo, 243-0591.

April 25-June 8 — "A Doll's House: A Chicana Story" (adapted from Ibsen for NM audiences); 8 p.m. Fri.-Sat., 3 p.m. Sun.; La Compania de Teatro de Albuquerque, Nuestro Teatro (3211 Central NE), 256-7164.

April 26 — Pops concert, New Mexico Symphony Orchestra with country/western star B. J. Thomas; 8:15 p.m., UNM Arena, 842-8565.

April 26 — Garden Fair and plant sale, free admission, Albuquerque Garden Center (10120 Lomas NE).

April 26 — Tito Puente All Stars, presented by NM Jazz Workshop; 8 p.m., Kiva Auditorium, 842-6659.

April 26 — The Ramblers (traditional and original folk and bluegrass tunes), 8 p.m., KiMo, 848-1374.

April 27 — Concert, UNM Symphonic Wind Ensemble; free admission; 2 p.m., Keller Hall.

April 27 — Film, "Animal Antics," narrated by Kent Durden; Audubon Nature & Wildlife Film Series; 7:30 p.m., Popejoy Hall.

April 28 — Concert, UNM Percussion Ensemble; features works by Harrison and Taira; 8:15 p.m., Keller Hall, 277-3121.

April 29-May 4 — Reptile show (pythons, iguanas, etc.); free admission; 10 a.m.-9 p.m. M-F, 10 a.m.-6 p.m. Sat., noon-6 p.m. Sun.; Coronado Center.

April 30 — Lecture, "New Mexico's Vegetation: Past, Present, Future," by NMSU biology professor William Dick-Peddie; admission by donation; 7 p.m., KiMo, 841-8836.

May 1 — Annual Feast Day, San Felipe Pueblo; Corn Dance by 500 dancers; contact pueblo.

May 1 — Concert (Mozart, Faure, Beethoven, Bloch, Stravinsky); Leonard Felberg, violin; Arlette Felberg, piano; 8:15 p.m., Keller Hall, 277-3121.

May 1 — Showtime at the KiMo, On Stage Series: "The Late Great Ladies of Blues and Jazz," with Sandra Reaves-Phillips; one-woman musical review of songs by 20th Century blues singers, including Josephine Baker, Billie Holliday, Dinah Washington, Mahalia Jackson; 8 p.m., KiMo, 848-1374.

May 2-25 — "Top Girls"; 8 p.m., 6 p.m.-Sun.; Vortex Theatre (Buena Vista & Central), 247-8600.

May 3 — Cinco de Mayo Fiesta, free admission, 1-10 p.m., South Broadway Cultural Center (1025 Broadway SE).

May 3 — Concert, UNM Chamber Singers; free admission; 8:15 p.m., Keller Hall.

May 3 — Santa Cruz Day, Green Corn Dance at Cochiti and Taos pueblos, contact pueblos.

May 3 — 12th Annual Strawberry Festival; all day street fair, with live music, food, children's activities, belly dancing, silent auction; free admission; 10 a.m.-5 p.m., Serendipity Day School (801 Girard NE).

May 4 — Concert, UNM Symphony Orchestra; features Student Concerto Competition winners; free admission; 3 p.m., Popejoy Hall.

May 4 — Albuquerque Philharmonia concert, free admission, 3 p.m., KiMo.

May 4 — Movietime at the KiMo, Boy Meets Girl Series: "Throne of Blood," Japanese (1957), English subtitles; 7 p.m., KiMo.

May 5 — Concert, UNM Early Music Ensemble; free admission; 8:15 p.m., Keller Hall.

May 6 — Video Fest, free admission, 7:30 p.m., UNM Experimental Theatre, 277-4402.

May 7 — Choral concert, featuring the UNM Concert Chorale and the UNM University Chorus; free admission; 8:15 p.m., Keller Hall.

May 7-18 — "The Rainmaker," New Mexico Repertory Theatre; 8 p.m. Tues.-Sat., 2 p.m. matinees Sat.-Sun., KiMo, 243-4500.

 LAB NEWS

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SANDIA NATIONAL LABORATORIES

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Sandian Reports on Pentagon Assignments

Arms control issues have always interested Clyde Layne. So when he had the chance a year ago to take a temporary assignment in the Pentagon, he left his job as supervisor of Systems Research Division 8478 and headed east.

His first Washington assignment was to serve in the Office of the Secretary of Defense in the Strategic Arms Control Group under Assistant Secretary Richard Perle. Clyde had hoped to work on new strategic arms control agreements, but when he arrived he was asked to take on the area of compliance—studying Soviet actions that may violate existing treaties. His official task was to serve as an advisor to the U.S.-U.S.S.R. Standing Consultative Commission (SCC), which meets twice a year in Geneva to discuss both countries' compliance with arms control agreements.

"The opportunity to travel to Geneva for two sessions of the SCC over the past year was a real bonus," Clyde reports.

In Washington he has worked in groups involving the Department of State, Arms Control and Disarmament Agency, the Joint Chiefs of Staff, and the intelligence community in developing U.S. policy on compliance matters. He also has helped to develop the President's annual report to Congress on noncompliance, which provided a list of concerns for the Geneva meetings of the SCC. These were then compiled into a set of instructions for the SCC delegation, instructions that must be approved by the White House.

Leader of the U.S. delegation of which Clyde was a part was Ambassador Richard Ellis, former commander in chief of the Strategic Air Command. The work in Geneva centered around producing statements expressing U.S. concerns and responding to Soviet concerns. Several of these statements were delivered to the formal sessions, which lasted five weeks each time. The sessions alternated between the U.S. and Soviet missions in Geneva.

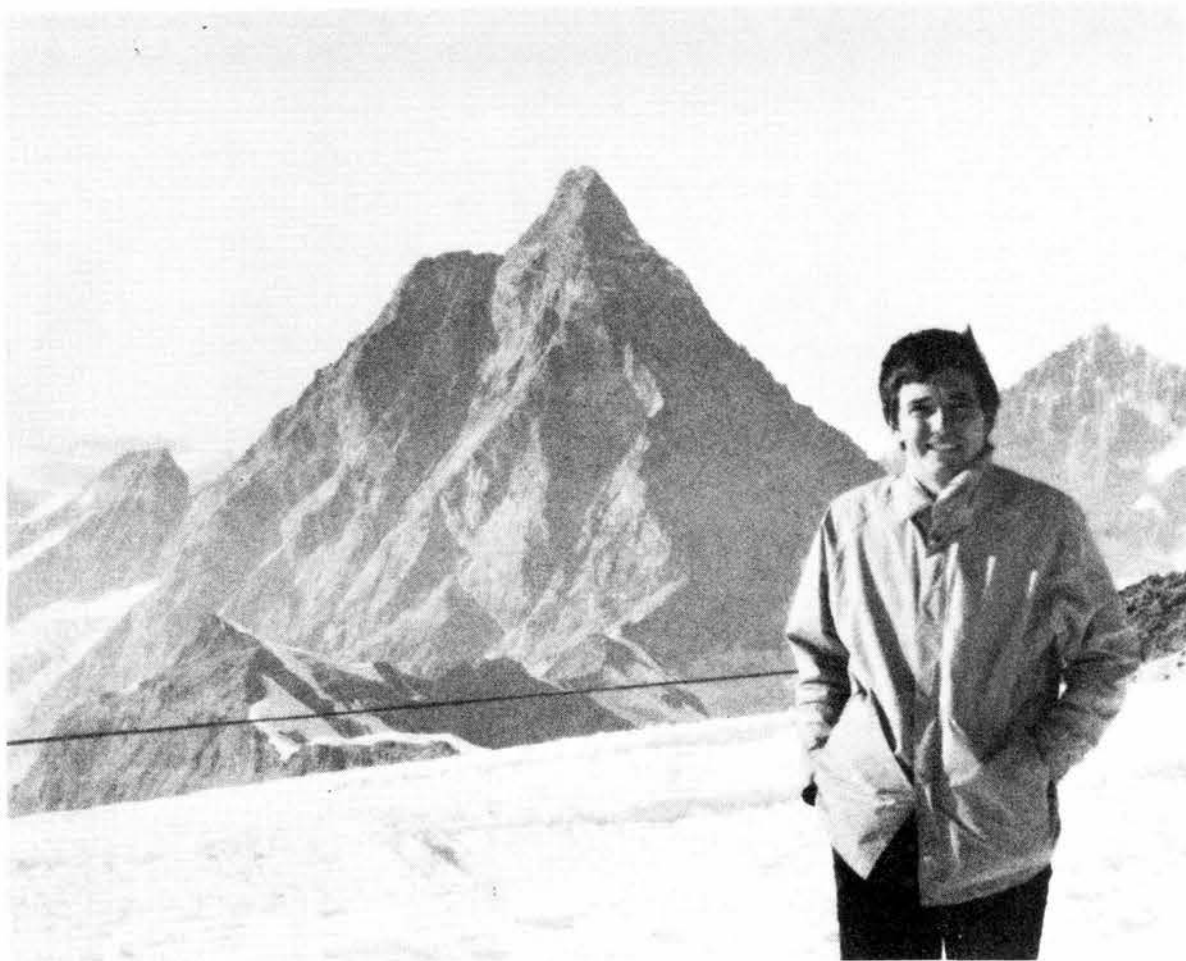
"At first I was reluctant to enter into discussions with my Soviet technical advisor counterparts, because I realized the weight of my words and their effect on future negotiations," says Clyde. "But as I became more familiar with the politics and diplomatic rituals, I found the exercise in international relations fascinating." Most of the exchanges at his level took place during informal group discussions following the formal SCC meetings. Both sides had interpreters, "but some of the Soviet advisors could speak English," Clyde reports. He admits that his college Russian completely failed him so he had to rely on the interpreters.

About his assignment in general the past year, Clyde says, "I found compliance issues interesting, but not very relevant to Sandia in the sense that it is a political area. Verification, on the other hand, is a technical matter with which Sandia is involved—determining what the other side is doing in testing or other defense areas covered by provisions of arms control agreements."

He has a new assignment for his second year, this one in the Office of Undersecretary of Defense for Research and Engineering Donald Hicks, working for Larry Woodruff (formerly of Lawrence Lab) on Strategic Defense Initiative (SDI) issues and on the interaction between defensive and offensive forces.

"Even though the commute from our northern Virginia home to the Pentagon is a bit grueling, we're enjoying the experience in the East," says Clyde. His wife Celeste and their two young children, ages 3 and 6, like their life in the suburbs and also take advantage of the tourist attractions offered around the Capital.

But Clyde doesn't plan to become a "Beltway



TAKING A WEEKEND OFF during the Geneva meetings, Clyde Layne enjoyed a trip into the Swiss Alps. The Matterhorn is in the background.

Bandit" (one of the people who work for the many government contractors scattered around the Washington Beltway). He looks forward to

returning to his newly built home in Livermore by early 1987 and taking up where he left off in Sandia's R&D programs.



SANDIA LIVERMORE NEWS

VOL. 38, NO. 8 SANDIA NATIONAL LABORATORIES APRIL 25, 1986

Take Note

Six Sandians represented the Labs at the Porsche Corporate Ski Challenge at Lake Tahoe March 7 and 8. Taking in the world championship events for corporate teams were Howard Royer (8254), Kevin Schroder (8432), Mary Claire Stoddard (8471), Oliver Lu (8432), Len Hiles (8153), and Richard Steeper (8473). A one-hour TV special of the event will be shown on ESPN at 10 p.m. April 25.

Bond Drive Heads Named

Sandia's 1986 U.S. Savings Bond drive is slated April 21 through May 2 this year. Co-chairing the campaign at Sandia Livermore are Sharron Norris (8024) and Otto Schreiber (8433). Employees will receive their payroll deduction cards along with materials explaining the advantages of investing in the bonds that offer the new, competitive interest rates.



SPACE SHUTTLE SCIENTIST Lodewyk van den Berg (at right) discussed his experiences during the April 1985 space shuttle mission at a Sandia Livermore Technical Seminar recently. The EG&G Santa Barbara scientist's onboard experiment concentrated on the growth of mercuric iodide single crystals, used as X-ray detectors by EG&G. Lodewyk shows off the work suit he used on the Challenger as Rick Stulen (8342), seminar organizer, looks on.

Supervisory Appointments

BILL OBERKAMPF to supervisor of Computational Aerodynamics Division 1636, effective March 1.

Bill joined the Labs in June 1979 as a member of the staff of Aeroballistics Division 1631. His work in that group has centered on computational fluid dynamics for reentry vehicles and artillery shells.

He has a BS in aerospace engineering from the University of Notre Dame, an MS in ME from the University of Texas at Austin, and a PhD in aerospace engineering, also from Notre Dame. He was a faculty member in the Department of Mechanical Engineering, University of Texas at Austin, before joining Sandia.

Bill is an Associate Fellow in the American Institute of Aeronautics and Astronautics, and a member of the American Society of Mechanical Engineers.

He is active in youth soccer as a coach and referee, and enjoys camping and hunting. Bill and his wife Sandra have two children and live in the NE Heights.

HOLLIS HEDLUND to supervisor of Military Manual Composition Section 3152-2, effective March 1.

Hollis has been at Sandia since January 1984, when she joined the text processing group in Office Systems Division 2613. Since, she's been involved with the Sandia Text Editing and Processing System (STEPS), and has been — and will continue to be — project leader for the ATEX replacement.

She has a BS in interior design from the University of Minnesota, and attended classes in computer-aided publishing at the Hennepin Technical Center in Minneapolis. She was supervisor of graphic systems at Northwestern National Life Insurance (Minneapolis) before joining Sandia.

Hollis makes pottery in her spare time. She lives in the SE Heights.

RON LOEHMAN to supervisor of Electronic Ceramics Division 1842, effective March 15.



BILL OBERKAMPF (1636), **HOLLIS HEDLUND** (3152-2), and **RON LOEHMAN** (1842)

Ron first was at the Labs in 1977-78, when he was on sabbatical leave from his job as associate professor of ceramics at the University of Florida. He joined Sandia permanently in February 1982. Since then, he's been doing basic research on glass ceramic-to-metal seals and glass crystallization.

He has a BA in chemistry from Rice University and a PhD in solid state chemistry from Purdue.

Ron's leisure time activities include racquetball, bicycling, and native plant gardening. He

and his wife Ellen have two children and live in the NE Heights.

Continued from Page One

bel Prizes. And some 70 percent of today's PhDs in physics come out of these settings; thus, they are very important to the future of science and technology in this country. But they need more financial support to be able to replace outmoded equipment and keep up in a fast-moving discipline."

Another goal of the committee is to gain support in Congress for the proposed Superconducting Super Collider particle accelerator. "The elementary-particles people have given us the scientific reasons for such a machine and have provided a good conceptual design," says Bill. "But it's clear that the nation can afford it only if it's an international facility, orchestrated as a major U.S. initiative at the highest levels and with financing as well as talent from all over the world."

The \$780,000 survey project was sponsored by the National Research Council of the National Academy of Sciences. The Academy asked Bill to head the project when he was Director of Physical Research at AT&T Bell Labs. He began the task early in 1983 and continued it after he came to Sandia in August 1984. "Incidentally, Sandia projects, notably our strained-layer superlattice and pulsed power fusion efforts, are mentioned in the overview volume," Bill notes.

Bill's committee included physicists from AT&T Bell Labs, Lawrence Berkeley Lab, Cal-Tech, MIT, Princeton, Stanford, Yale, Cornell, and the Universities of California at Berkeley, Los Angeles, Santa Barbara, and Irvine. In total, the survey involved several hundred physicists throughout the country.

Congratulations

Meredith and Rudolph (2512) Jungst, a daughter, Heather Nicole, March 31.

Judy Jewell (310) and Charles Baldwin II, a boy, Christopher Terrence, April 7.

De (1540) and Craig (1254) Mattson, a son, Anthony Russell, March 11.



JANET WALEROW has joined the LAB NEWS crew as its long-awaited editorial assistant. Janet worked for two years at the Visitor Center's (3163) reception desk. She has an associate degree in secretarial science from Minot State College in North Dakota. In her earlier life, she was a reporter on her college newspaper, where she wrote a biweekly column and also did some editing. All her classes in publication makeup and design will be useful here — the LAB NEWS is still doing in-house typesetting and looking for a contract printer. Janet is now the Feedback Coordinator, and is putting together the Weekly Bulletins. She will be taking over the LAB NEWS's "Take Note," "Fun & Games," supervisory appointments, sympathy, congratulations, and classified ad departments. If you have any material for these sections, send them to her via mail (Div. 3162) or COMET (LAB NEWS). If you have questions about these departments, call her on 4-7841.

Sandia Salutes Its CPSs

Today marks the end of National Secretaries Week, so if you haven't done something special for your secretary yet, it's nearly too late.

That something special may be just a nudge—the nudge she needs to begin working on her CPS. That is, her achievement of the Certified Professional Secretary status.

Why a CPS? For one thing, it's good for the secretary. For another, it's good for Sandia.

From the secretary's point of view, earning the CPS is not easy—"the most grueling exam I've ever taken, and that includes the Graduate Record Exam," says Etta Moore (3461; CPS 1972)—but it's the kind of personal/professional accomplishment that creates a pride in one's self and one's career that's well worth the effort. "Challenging" is the word many current CPS holders use:

"The CPS experience showed me that I was capable of doing something really challenging," says Estelle MacKenzie (5210; CPS 1985).

"Earning the CPS is the most challenging and satisfying academic task I've ever undertaken," says Wanda Whitham (6400; CPS 1973).

"It's like Mt. Everest—you go for the CPS 'because it's there,'" says Etta. "It's a personal challenge, the standard of excellence for secretaries. And it gives you a chance to prove yourself, to set a high goal and reach it. There can be other benefits too—earning the CPS gave me the confidence I needed to go on and get my bachelor's and master's degrees."

Sandia has changed its point of view toward the CPS over the years. Time was when the Labs essentially said, "If you want to go earn your CPS, go ahead. We won't stand in your way, but we won't assist you in any way either." And people used their vacation time and paid their expenses to go to Denver or Dallas or El Paso and take the two-day CPS exam.

Today, the Labs recognizes the CPS as a badge of professionalism, an indication of quality in its secretaries. There are good reasons for that recognition: The CPS certification is based on national standards of excellence; it means a level of skills far beyond doing the typing, taking the dictation, and fixing the copier; and secretaries "are now considered a vital part of our program teams," says Jack Walker, manager of Reactor Safety Research Department 6420. "We expect and reward professionalism on the part of our technical staff, and I think that most Sandia managers believe that our secretaries should be treated in the same way.

"In my mind, certainly, the CPS certification demonstrates this professionalism," Jack continues. "It's a commendable achievement."

"I encourage secretaries to consider working toward the CPS," says John Cantwell, assistant to Executive Vice-Presidents 20/30. "It demonstrates a level of professionalism and sophistication in acquiring skills on both the business and



HIGH-LEVEL SUPPORT for Sandia's CPS review program resulted from a meeting of President Irwin Welber and CPS-holders (l to r) Sue Henderson (3700; CPS 1985), Roselyn Baca (6332; CPS 1979), and Estelle MacKenzie (5210; CPS 1985). Other Sandia CPSs are D'Ann Anderson (5200; CPS 1973), June Aydelotte (3543; CPS 1976), Rae Botner (3726; CPS 1971), Robin Cassell (1810; CPS 1971); Linda Caudell (5114; CPS 1980), Esther Coffman (1820; CPS 1967), Claire Ford (3521; CPS 1978), Etta Moore (3461; CPS 1972), Irene Myers (7213; CPS 1971), Julia Norwood (3400; CPS 1981), Jeana Pineau (7531; CPS 1984), Lillian Podvin (5313; CPS 1974), Phyllis Pryor (3723; CPS 1981), Ruth Tucker (6222; CPS 1967), Bobbi Voelker (3151; CPS 1971), and Wanda Whitham (6400; CPS 1973).

tending that kind of high-level competence to every level of the company. And secretaries today are a vital partner in the business of keeping our organizations running smoothly and producing our principal product—new knowledge.

"In a place like ours, it's easy to forget the contributions of the so-called 'support' folks, but those contributions are essential to our task," Irwin continues. "We need people who develop new skills, exploit their potential, see their work as something in which they take pride. And that's just what earning a CPS offers.

"One caveat: The CPS is not for every secretary. Just because you don't achieve one doesn't

mean you can't be an excellent secretary. And just because you do achieve one doesn't necessarily mean a raise or a promotion. Job performance is still the bottom line."

Sandia's support of the CPS program goes beyond lip service. A series of six new, out-of-hours CPS review classes will begin in June and run through April 1988. Topics covered are identical to the topics covered in the CPS exam (which is now offered in Albuquerque): behavioral science in business, business law, accounting, office technology, office administration and communication, and economics and management.

Unit Values

Here are the AT&T Savings Plans Unit Values, as of Feb. 28, 1986:

	Unit Value	Units Credited Per Dollar
SPSE (Savings Plan for Salaried Employees)		
AT&T Shares	1.4766	.6771
Government Obligations	4.4556	.2244
Equity Portfolio	3.9273	.2546
Guaranteed Interest Fund	2.0722	.4825
Diversified Telephone Portfolio	5.6007	----*
SSP (Savings and Security Plan - Non-Salaried Employees)		
AT&T Shares	1.4923	.6700
Guaranteed Interest Fund	2.1855	.4575
Diversified Telephone Portfolio	2.6064	----*
VCP (Voluntary Contribution Plan)		
AT&T Shares	1.448	.690
Mutual Fund Equity Portfolio	2.480	.403
Money Market Fund	1.349	.741
Guaranteed Interest Fund	1.516	.659
Diversified Telephone Portfolio	1.773	----*

*Since there are no new units credited to this fund there is no longer a need for a "units credited per dollar" figure.

An information-gathering session for those secretaries interested in more information on the new CPS review program is set for May 1 from 11:30 to 1 in Bldg. 800, Rm. 201. If you can't make that session, talk with Roselyn Baca (6332), Sue Henderson (3700), or Estelle MacKenzie (5210).

personal levels that are essential to an organization like Sandia. Take our increasing involvement with our government sponsors and overseers for example—it's often the secretaries who play an important role in making those relationships work."

President Welber reinforces Jack's and John's comments: "Just as we're extremely concerned about maintaining the capabilities of our technical staff, we're also concerned about ex-

About Sandia, For Sandia, By Sandia

Each of Sandia's four decades of existence had a personality of its own — and was a distinct developmental stage — according to Necah Furman, corporate historian since April 1984.

The Labs, established as Los Alamos's Z Division in 1945, cut its teeth in 1945 during "the stockpile era," as she describes it, while "packaging the bang for the bomb." It underwent growing pains during the "the ordnance decade" of the mid-50s and early 60s, when an all-out effort was

"The study of a company's history — its heritage and ethos — enables managers to see the present as part of a process rather than as a collection of accidental happenings."

— Necah Furman

made to upgrade the technical staff — and when reliability and safety issues became paramount.

Then, about 1965, came the salad days of Detente. By the 70s, Sandia entered the graduate school of hard knocks and low funding that vaporized some technicolored dreams — and suddenly, "The lions were gone." Now, at the end of the Labs' fourth decade, the pendulum swings

Wanted: Documents From A to T

A working archive has to be readily accessible and "it doesn't help if files are stored out in the Manzano Mountains," says Necah Furman, Sandia's official historian. Neither does it help if they are packed away in Sandians' attics.

As Sandia matures and its old-timers retire, it becomes more and more difficult to preserve the full wealth of corporate memory. The writing of an institutional history requires documentation by primary and secondary sources.

If you find any papers during office or home spring-cleaning that lend themselves to perusal by Necah and her research assistant, Tonimarie Stronach, please call them at 6-9619 or 6-9618. (Their mail stop is 3151A.) In order to compile the most complete documentation of Sandia's history, the history staff is continually on the lookout for various materials. Perhaps this list will jog some memories:

- Activity or status reports
- Audiovisual records
- Authorization proposal files
- Brochures
- Budget records
- Committee records (minutes, agenda, correspondence)
- Correspondence files documenting policy and distinctive programs
- Formal directives and procedural issuances
- Graphics
- Individual directorate, activity, or project histories
- Institutional planning files
- Interviews
- Lab newspapers
- Legal records
- Maps of SNL sites, buildings, facilities
- Motion picture film
- Newspaper clippings
- Organizational charts
- Patent records
- Personnel biographies
- Photographs
- Press releases
- R&D technical reports
- Resumes
- Speeches
- Tapes
- Telephone directories

again. Sandia has come of age, and with that maturity comes "reevaluation and SDI," a time prime for rebuilding national defense.

Necah's No. 1 job is to gather historical material from all four decades and weave it into a coherent whole, using as its warp and woof the Labs' mission of weapons development and its technical accomplishments.

The historical harvest may teach all Sandians something. "The study of a company's history — its heritage and ethos — enables managers to see the present as part of a process rather than as a collection of accidental happenings," says Necah. "Perceiving a company in this way can enhance management's ability to plan for the future."

She hopes that the history will serve as a useful orientation for new employees: "It may help to relate events of long ago to contemporary concerns." For the general public, in turn, "the story of Sandia should clarify the role that the Labs has played not only in the national defense but also in the transfer of the offshoots of weapons-related technologies to the public sector," she says.

The primary product looming on the horizon, naturally enough, is a book. Nine chapters already exist in typeset form, bringing Volume 1 — on the first decade — that much closer to the black-and-white reality of publication.

Although this is not the first project — Frederic (Ted) Alexander (ret.) published a 61-page *History of Sandia Corporation* in 1963 — it will be the first multivolume work, with each volume spanning a decade, and the first history geared for external distribution. "This is a scholarly history, similar to the AEC [Atomic Energy Commission]

and Bell Labs histories," says Necah. "But we hope that it will be even more readable, with more personality and human interest."

To get that human element, Necah has taken to oral history gathering — a la author Studs Terkel — with enthusiasm and a lot of energy. She has interviewed more than 100 Sandians thus far. Retirees, in particular, are very willing to share their experiences and memories, thereby providing the bright accents of color that are intended to make her book as enjoyable to read as it is to write (see "Sandia Gets Its Sea Legs" story).

Along the way, Necah has probably become the person most knowledgeable about Sandia's history — although she refuses to stake that claim, saying that "the people who lived it, such as Ted Alexander, know a lot more. People such as Bob Henderson and Glenn Fowler shaped the course of history. My task is simply to explain their roles and contributions."

In the meantime, the history project has trebled in scope. Necah has worked on 22 history-related special projects. She's planning training sessions and workshops, all in an effort "to enhance historical awareness throughout the Labs." She's also establishing a working archive (see "Wanted: Documents From A to T" story).

The history project has progressed rapidly, considering its age: two years, and the size of its staff: two people. "George Dacey initiated the project, and President Welber has made clear his continued support for it," she says. "And 24 out of the 34 directorate histories are fairly complete — even though annual updates are needed. The most complete ones have a narrative history with



NECAH FURMAN

supporting documentation: photos, anecdotes, oral history tapes or transcripts, and official papers."

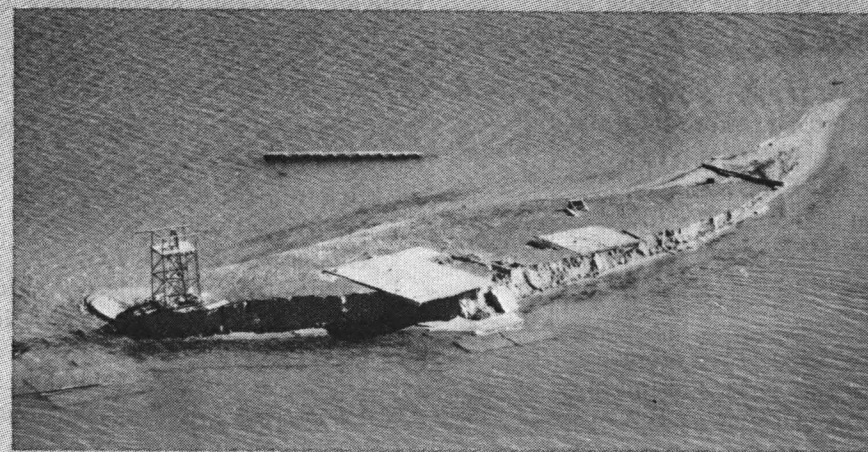
Yet, as Necah explains, "Sandia's story is not solely about Sandia. It's highly related to political events on the national scale." And that's where the subtitle for *The History of Sandia National Laboratories* comes in. It's from a 1949 letter written by President Harry Truman to persuade AT&T to manage Sandia, and it mentions Sandia's potential role: *An Opportunity to Render an Exceptional Service in the National Interest.*

Sandia Gets Its Sea Legs

Some of historian Necah Furman's favorite anecdotes have to do with field testing in the early 50s at the Salton Sea Test Range in southern California.

The desert environment was isolated and primitive. Temperatures could be suffocating — frequently exceeding 110 degrees. To take the heat off, Sandians often went swimming — despite regulations — and waterskied back and forth to the North and South Islands.

People were starved for company and thirsty for entertainment. On one occasion, field testers Guy Willis and buddy Don Brandenburg drove in from Albuquerque on U.S. 66. Around Flagstaff, the duo spotted a "Watch for Snow Plow" sign. They filched it and placed it along the access road at Salton Sea "to amuse the natives."



ISLAND FEVER was one of the symptoms of working at any of the Salton Sea islands. Here is one of the more anonymous — and forbidding — ones that Salton Sea Sandians called their "home on the test range."

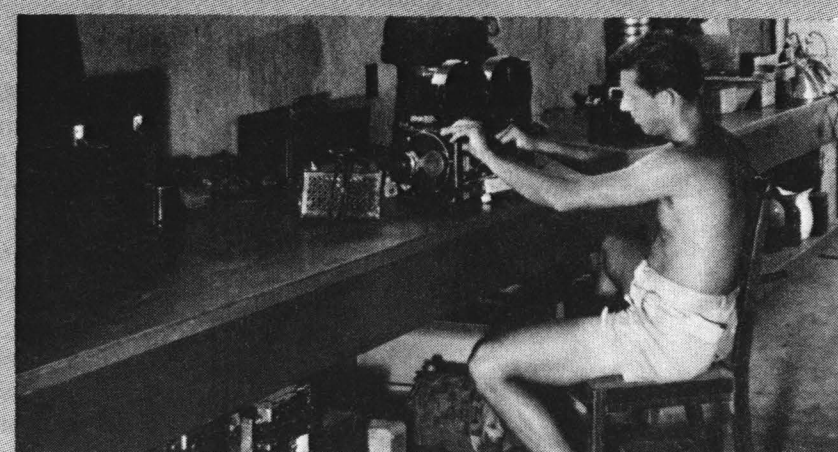
When VIPs came to observe test drops of various weapon shapes, Sandians sometimes planned special effects such as dropping a concrete-filled "pumpkin" that sent streamers unfurling as it came down. One time a "pumpkin" became a misguided missile and landed in a carrot patch five miles from the town of Niland. For a long time afterwards, the local papers referred to the incident as the "Niland bomb scare."

Field Test chief Glenn Fowler was fond of saying that "We drop everything out here but the kitchen sink." So on one occasion, visiting dignitaries watched with amazement as a porcelain kitchen sink — filled with rolls of toilet paper — fell from the delivery aircraft.

Salton Sea also had a plentiful supply of sidewinder rattlesnakes. Base photographer

Jim Karo had a greater interest in snakes than most people did. "He would catch the rattlers and stash them away in a refrigerator with his film — all this in order to photograph them in a hibernating state," Necah narrates. "It was common knowledge around the Base that if you ever walked into the photo lab and saw Jim on his hands and knees, it was wise to turn around and walk out of there, fast. Chances were one of Jim's snakes had gotten away from him."

Despite the good-humored horseplay (or perhaps because of the ebullient outlets), Necah concludes that "Sandians got the job done — with baling wire and yellow tape, if necessary. In fact, the field-test ethic, or the 'can do' attitude, has colored the complexion of Sandia to the present day."



A PHOTOGRAPHER'S HOBBY: Jim Karo (ret.) may not have filled the LAB NEWS's files with many photos of the old Salton Sea days because he liked to fill up his fridge with rattlers—to study their hibernating ways. The site was open from 1945 to 1963.

Fun & Games

Track — Corporate Cuppers, take heed! The Albuquerque Olympic Club is hosting its first classic track meet at Manzano H.S.'s Wilson Stadium on Sunday, May 4, at 9 a.m. Field events and relays are lined up already for open and masters runners. This will be the perfect opportunity for a Corporate Cup tune-up meet. Entry deadline is May 2; the fee is \$2 per event per athlete plus \$1 for the TAC fee. Contact Andy Brito (7474) at 4-4901 or 4-6716 for more info. ***

Skiing — Recent elections have given the Coronado Ski Club a new lift. The new officers for '86-'87 are: Carolyn Lange (2625), president; Donald Cowgill (2564), vice-president; Austin Burch (ret.), secretary; Jane Moses, treasurer; Curt Moses (5151), membership chairman; Steve Ross (1200), publicity chairman; Sharon Mackel (330), trip chairwoman; Wes Pfanner (343), area representative; and Lisa Mondy (1511), director. Congratulations to all — and better luck with the white stuff next year! ***

Swimming — Registration for swimming and lifesaving instruction will be held Saturday, May 3, from 9 a.m.-12 noon at the Coronado Club. Seven different levels of lessons — all certified by the Red Cross — are available, with a cost of \$12 for each class. In addition, there are private lessons (\$3.50 per half hour) and classes for pre-school (\$12) and adult swimming (\$15). Note: Club memberships and season passes for the Club's two pools must be purchased before signing up. For more info, call the SERP office at 4-8486. ***

Golf — No ifs, ands, or putts about it, SWGA kicked off the '86 golf season with two fun tournaments. The nine-hole at Puerto del Sol was won by Minnie Shurick (DOE), with Mary Gonzales (6331) having low putts. The annual tourney at Paradise Hills was won by Tess Reis (ret.), while Mary Gonzales again had low putts. Three tourneys are scheduled for May: at Los Altos, UNM, and Ladera. ***

More Golf — The 15-year-old Classic tournament already has racked up three firsts this year, and it hasn't even been held yet! It's gotten the nod from the PGA Tour as a professional Senior Tour event (competitors must be at least 50 years old) — and Don January, Chi Chi Rodriguez, and Billy Casper are already committed to play. It's become the first benefit for all five of Albuquerque's hospitals. And it's gained a new corporate sponsor: Sunwest Bank. But the good old traditions remain in Charley Pride and his wife Rozene are still the celebrity hosts of the coat-and-tie Dinner Show and the countrified Hangar Hoedown. The schedule starts April 30 at the Four Hills Country Club with a nine-hole "shootout" for a \$10,000 purse. May 1-2 are for

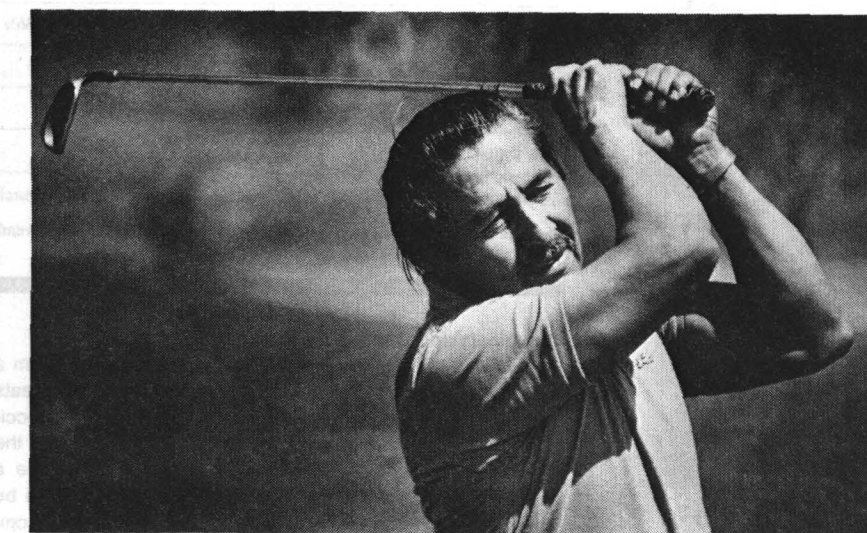
pro-am play, with a purse of \$250,000. There are 216 spots available for amateurs who purchase tournament sponsorships. Also, former Sandia President Morgan Sparks is on the lookout for 1000 volunteers. If the Classic sounds like your cup of tee — as a player or a volunteer — contact Harold Morgan at Sunwest Bank, on 765-3156. ***

MWR "Passports" — Family Membership cards are now being offered for \$24 (per calendar year) through the Morale, Welfare, and Recreation Div. at Kirtland AFB. An MWR card gives your entire family access to: fitness equipment and programs at the gyms, child care, bowling center, arts and crafts shop, recreation center activities, and MWR supplies. If you've purchased more than one MWR card for your family members, you are eligible for a refund. For your official "fun & games passport," come to the Que Pasa Recreation Center, or call 4-5420. ***

More Swimming — In addition to the MWR card, pool patches — which can be kept in your wallet or sewn on your swimsuit — are required for use of the MWR's four swimming pools. The indoor Olympic pool by the East gym is open year-round to Sandians. MWR operates three more pools in the summer: one at the Youth Center, and one each at the East and West officers' clubs. Beginning in May, the cost of a patch is \$16 for an individual, \$24 for a family of two, and \$32 for a family of three. Each additional family member pays \$3. For more info on aquatics, call Que Pasa at 4-5420. ***

Motorcycle Racing — S.O.R.E. (Southwest Off-Road Enterprises) Ltd. has announced a new course for the ninth annual Miller High Life "Oh My God" 100 Motorcycle Desert Race. The race starts with a riders' meeting at 8:30 a.m. on May 18. The location is Highway 44, north of Bernalillo, between mile markers 42 and 43 (turn west). Large trophies will be awarded to the first five places in all eleven classes — including one each for women and old-timers (over 40). Experts get to vie for the \$1500 purse. For more info on racing fees and/or camping, call Dwight Lewis (DOE/AL) at 296-7896, or Dave Reinig at 296-6506. ***

Bird Counting — Here's a chance not only to count birds in the southwestern part of the state but also to look at wild flowers and to tour the Silver City area. The regional office of the Audubon Society does not require expertise in avian biology for participation in its third annual event. The outdoor fiesta starts on Friday, May 2, at 7:30 p.m. with a briefing at WNMU's Harlan Hall. May 3-4 are for excursions. You may plan to camp or to stay at a motel. For reservations — required by today — call Evelyn Price at 831-5028.



A SECOND THANKSGIVING fell on Nov. 29 for Louis Flores (5113) when he got a hole-in-one at 155 yds. at Los Altos. "It just landed on the green, kicked to the left, and rolled in," says Louis. "All that turkey and good eating must've primed me up." The leftovers must've also tired him out: Louis celebrated at the clubhouse with only a Coke.

WIA

volunteers in action

Here are a couple of current volunteer opportunities for employees, retirees, and family members. If you would like more information, call Karen Shane (4-3268).

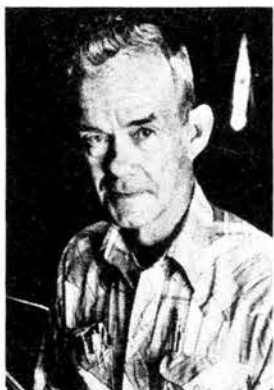
RIO GRANDE ZOO is looking for either weekday or weekend leaders for its new mini-tour summer program. On both Saturday, April 26, and Monday, April 28, two-hour training sessions will be offered for the great apes, birds of prey, and African plains exhibits.

NEW MEXICO SPECIAL OLYMPICS is a program of sports training and athletic competition for mentally retarded children and adults. Volunteers are needed during both area (Saturday, April 19) and state (Friday evening through Sunday, May 30-June 1) competitions to escort entrants to their assigned events, help with scoring, tallying, judging, etc.

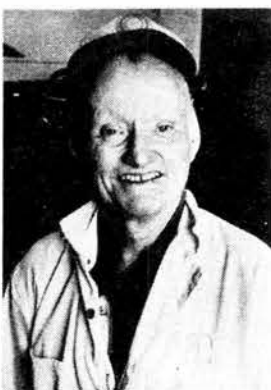
RETI R I N G



Dee Ellett (6332)
36 yrs.



Troy Kersey (7818)
27 yrs.



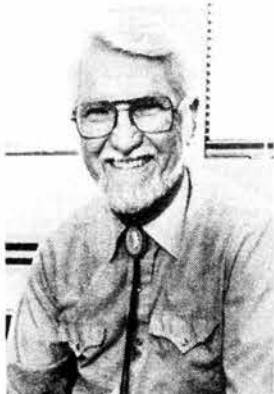
Paul Kind (7818)
35 yrs.



Ed Ames (7116)
37 yrs.



Ponciano Barela (7818)
24 yrs.



Gene Carter (2342)
38 yrs.



Philip Eyer (5215)
29 yrs.



RALLY 'ROUND THE FLAG! Union officials this week raised Sandia's "Minuteman" flag awarded by the U.S. Treasury Department for the Labs' participation in the Savings Bond program. Endorsing the drive are (l to r) Ruben Garcia (3436), president, Local 27, International Guards Union; Jerry Garcia (153), president, Local 251, Office and Professional Employees International Union; and Conrado Otero (7482), president, Metal Trades Council. All three remind you that you can be part of the Sandia BONDfire for as little as \$1 a week (if you're paid weekly) or \$2 a paycheck if you're paid semimonthly. Bond-a-year participants pay a minimum of \$25. The Bond drive began Monday, and will continue in high gear through May 2. Campaign goal this year: No. 1 in participation on the honor roll of U.S. corporate leaders. Sandia was in fifth place at the close of last year's campaign.

SANDIA BONDFIRE: LIT THIS WEEK, BURNS THROUGH MAY 2



THIS ISSUE OF LAB NEWS went to press before the Savings Bond campaign began last Monday, so we won't be able to report Sandia BONDfire progress until next issue. You're urged to stoke that fire — help the Labs toward its goal of No. 1 in the nation in participation!


Semiannual Market-Based Rates

Bonds Purchased	Annual Percentage Rates for Semiannual Periods							Average Rate
	1st	2nd	3rd	4th	5th	6th	7th	
Through April 30, 1983	11.09%	8.64%	9.38%	9.95%	10.94%	9.49%	8.36%	9.69%
May 1, 1983-Oct. 31, 1983	8.64%	9.38%	9.95%	10.94%	9.49%	8.36%		9.46%
Nov. 1, 1983-Apr. 30, 1984	9.38%	9.95%	10.94%	9.49%	8.36%			9.62%
May 1, 1984-Oct. 31, 1984	9.95%	10.94%	9.49%	8.36%				9.69%
Nov. 1, 1984-Apr. 30, 1985	10.94%	9.49%	8.36%					9.60%
May 1, 1985-Oct. 31, 1985	9.49%	8.36%						8.93%
Nov. 1, 1985-Apr. 30, 1986	8.36%							8.36%

These rates apply only to Bonds held five years or longer and to Bonds purchased before November 1, 1982, when they are held to their first interest-accrual date beginning on or after November 1, 1987.

AVERAGE YIELD FOR BONDS held since the beginning of the market-based interest program is 9.69 percent. Average rates for all eligible Bonds are shown in this table. Average yields change each May and November. The minimum guaranteed yield on Bonds held five years or longer is 7.5 percent.

Chemicals and Computers Mix

 ... "A student chooses two test tubes from a rack, pours the contents into a beaker, and heats the mixture. Suddenly, it explodes. If this accident happened in a real chemistry lab, the consequences would be serious. But this lab would be a simulation — test tubes, beaker, and explosion would all be video shots coded onto a videodisc and played back by commands given to a microcomputer. This simulation is only one

example of interactive videodisc, which combines video images recorded on disc and random-access capability. The new medium has been called 'the ultimate educational tool,' and it combines the potential of many teaching devices. Interactive videodisc brings together the emotional power of the television and the interactive power of the computer. It is destined to have a major impact on education, training, information services, retail sales, and entertainment."

Richard L. Currier in *High Technology*

The eighth annual Ideas in Science and Electronics (ISE) Exposition and Symposium opens at the Convention Center at 9 a.m. on Tuesday, April 29. A keynote lunch features Assistant Secretary of Defense Robert Helm, who will speak on national defense policy and its implications for the Rio Grande Technology Corridor. Tickets are \$12 for the talk and \$15 for the three-day, IEEE-sponsored seminar program (for advance registrants). Technical session topics include power systems, microelectronics and thin film, robotics, communications, instrumentation, transducers and measurements, computer applications, and military avionics. More than 600 manufacturers will exhibit electronic equipment and computer-aided systems. Registration can be arranged in advance by calling ISE at 294-6622.

"Doctor of Engineering — First Professional Degree" is the topic of a luncheon talk to be given by Peter Dorato from UNM's EE Dept. The speaker will present a proposal that would replace the four-year bachelor's degree in engineering with a 6-7 year doctorate. The floor will be open to discussion. The talk, sponsored by the ABQ section of the American Institute of Aeronautics and Astronautics (AIAA), is scheduled for 12 noon this coming Monday, April 28, at the Coronado Club. For more info, call Craig Jones (1651) at 6-5992.

The City of Albuquerque is seeking nominations for the 1986 Distinguished Public Service Awards. Nominees must be citizens of New Mexico and must have made a significant contribution to public service, either as public employees or private citizens. The goal of this program is to give recognition to people who have worked for the good of many without seeking the limelight. The deadline has been extended to Monday, April 28. Nomination forms are available at the LAB NEWS office in Bldg. 814.

The family, friends, and fellow employees of Craig Summers, who retired in December and who died on March 31, have established a memorial Presidential Scholarship in his name at UNM for the '86-'87 academic year. One of these prestigious awards will be presented in his name to a N.M. high school graduate who has excelled academically and has demonstrated leadership in other school-related activities. Sandians who wish to participate in establishing this award may send a contribution to the "Craig Summers Memorial Presidential Scholarship," c/o Chris Roan (3743), 6-9959.

Volunteers are needed for a drug study on high blood pressure to be conducted over four months by Mitchell, Silbaugh & Stryker, a group of local physicians, and Eli Lilly Co. The study is open to mild or moderate hypertensive males who are generally in good health: no serious heart disease or uncontrolled diabetes, no history of liver or kidney disease, and no history of anemia or sensitivity to thiazides. They must also be heterosexual with a regular partner because the drug, a vasodilator, will be tested for problems with impotence. All medical care, laboratory studies, X-rays, and cardiographs will be done free of charge to the patient. Approximately one office visit is required per week. If interested, please call Dr. Barry Silbaugh or Genara Griego at 294-1400.



NANCY FRESHOUR (2629; left) and JUDITH MEAD (7213) were among 10 award winners honored at the YWCA's "Women on the Move" Awards Dinner on April 17. The "Women on the Move" program honors Albuquerque-area women who have made significant contributions to their companies, organizations, and/or community, and acknowledges businesses and organizations that provide opportunities for women to achieve. Judith, supervisor of the Weapon Training Division, won in the Science/Engineering/High Technology category. Nancy, a systems analyst in the Procurement Systems Design Division, won in the Business—Non-Managerial category. Seventeen Sandians were nominated for the awards; others include Margaret Carroll (7861), Carol Kaemper (21), Melodie Owen (4021), Elaine Howard (7110), Dawn Johnston (7866), Patricia Appel (7475), Carol Ashby (1126), Janet Carkeet (5312), Suzanne Kelly (2645), Jeanne Lewis (2341), Kathleen McCaughey (2543), Ruth Ronan (7262), Mary Ann Sweeney (1265), Kathleen Stimmell (5142), and Eleanor Walther (5321).

On May 3-4, a May Festival — complete with five German bands — is taking the place of the canceled Fasching (Mardi Gras) Bier und Wurst Fest. The German-American Club plans to hold it under the Big-Top tent at Quincy & Menaul from 11 a.m.-10 p.m. The culinary features include knackwurst, Krakauwurst, and bratwurst mit sauerkraut, strudel, pretzels, and German beer. The entry fee is \$2 for adults; all profits will go to charity. Call Larry Lopez (2833) at 4-1498 for more information.

Health and fitness awareness is the theme for May, when MWR, the USAF Hospital, and Kirtland AFB combine their efforts to organize a variety of programs. May 1 starts out as a mental health day at the Rec Center with an exercise on positive attitudes and confidence. A first-aid workshop will be run on May 13 and 19 at the hospital. Infant CPR training is available on May 17 at the Youth Center. A stop-smoking clinic is scheduled for May 27 at the hospital. There are many other events, including windsurfing, hiking, bowling, running, unicycling, nutritional counseling, arts and crafts, and "Healthy Heart" menu specials throughout the base. For a com-

plete list, call Judy Coyne at the Rec Center, 4-5420, or Capt. Walton at the hospital, 4-6625.

An elaborate Zuni celebration of folk art and food is planned for 1-4 p.m. tomorrow by the UNM's Maxwell Museum of Anthropology. Cooks from Zuni Pueblo will prepare traditional feast day foods such as breads, squashes, and meat. Beverly Stoeltje, a folklorist from the University of Texas at Austin, will give a short talk on the ritual of food and its place in celebration. Admission is \$3; museum members - \$2. For details, call Katherine Pomonis at 277-4404.

Welcome

Texas

David Westgate (7261)

Sympathy

To Glen Perdue (7533) on the death of his mother in Oklahoma, April 10.

To Samuel Gurule (7818) on the death of his grandmother in Albuquerque, April 10.

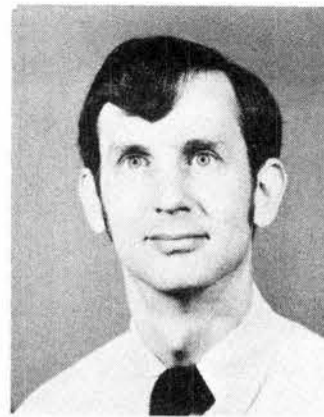
MILEPOSTS

LAB NEWS

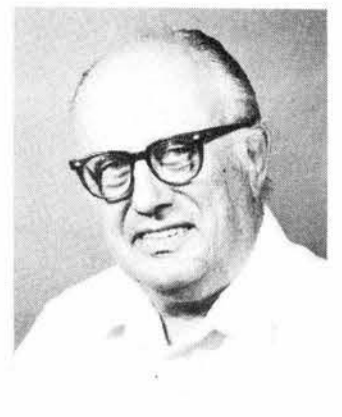
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Gardner Green (3426) 20



Doug Brown (2644) 10



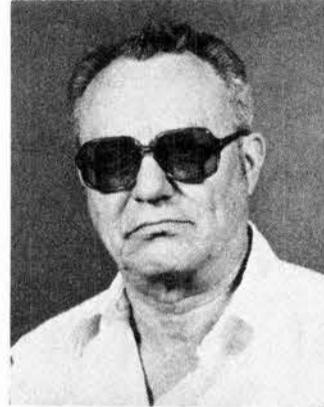
Stephen Chemistruck (2564) 35



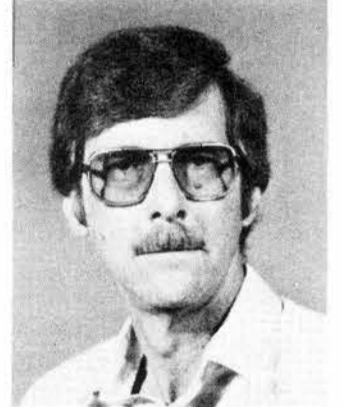
Everet Beckner (6000) 25



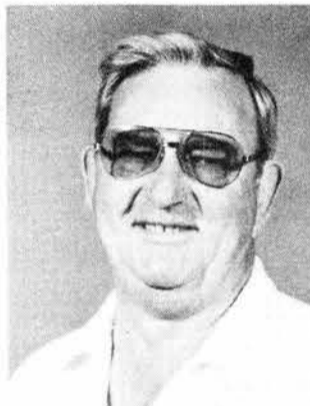
Florencio Aragon (5113) 15



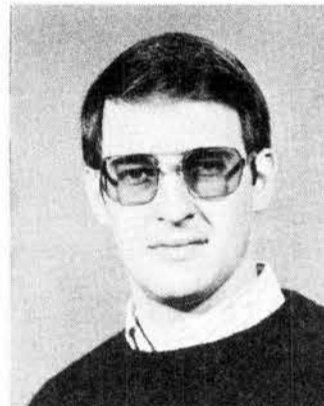
Dale Fimple (5242) 25



David Huskisson (1822) 15



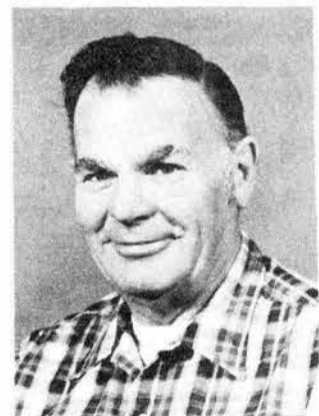
Leonard Buza (7818) 10



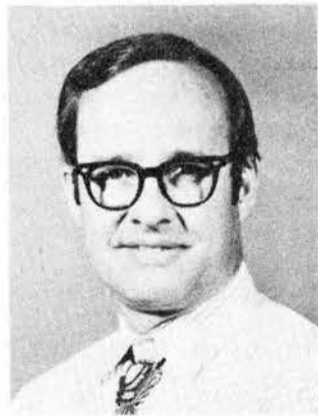
Tom Lutz (6248) 10



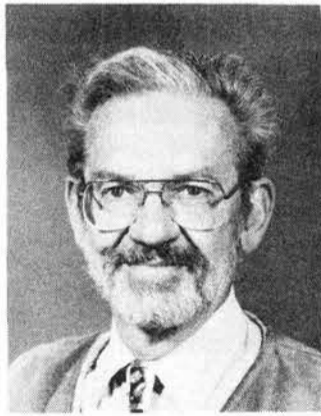
Betty Gray (3531) 20



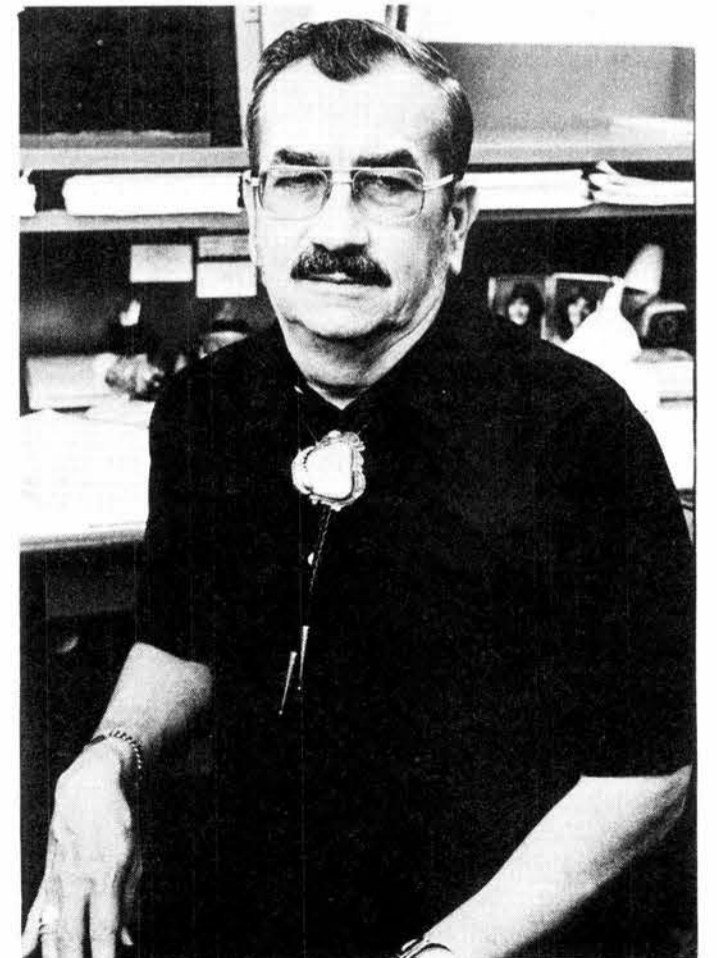
John Snyder (7234) 30



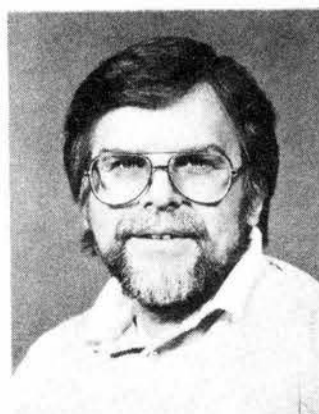
Norman Brown (1821) 20



Frank Burns (1821) 10



Ed Paboucek (2542) 20



Martin Konkel (5268) 25



Karl Hess (7172) 10



Gary Kinemond (5155) 25

Cinco de Mayo: Guess What Day

WE ALL KNOW that Cinco de Mayo celebrations are held on the 5th of May, right? Wrong! Ye olde C-Club is getting the jump on everyone else by having *its* revolutionary bash on Thursday night, May 1. It's an evening jam-packed with good food and good entertainment. To start things off, there's a fabulous Mexican buffet (\$5.95) on the serving line from 6-8. To really get you in the mood, Miguel Caro and the Mexican Fiesta Dance Co. perform from 7-8. And to top it all off, the band Together will help you get that way from 8 to midnight. By that time you'll have done a flamenco or two, a samba, a rumba, a . . .

NO WOLVES in sheep's clothing, these! The Coronado Wolfpack wants *you* to come out to its annual membership party on April 29. It's at 7 p.m. in the Eldorado room, and the pack is throwing in all sorts of treats for would-be members and regulars: snacks, beer, wine, soft drinks, etc. Eat 'em up, eat 'em up, woof, woof, woof!

HOW DOES FILET MIGNON or poached halibut — two dinners for an unheard-of \$14.95 — sound to you? You can make that dream come true if you make a reservation for the two-for-one special at the Club next Friday night, May 2. Afterward, brush up your country/western stomp with dance lessons from 7:30-8:30, and put it all into practice to the strains of the Isleta Poor Boys from 8:30-12:30. On Friday, May 9, the two-for-one features prime rib or fried shrimp, and the always enjoyable big band sound of Don Lesman afterward. Be there — you can even understand the words and music!

THEIR HEARTS ARE REALLY in it, as are their diamonds, spades, and clubs! You're right — it's that famous band of T-Bird card players. And they're doing their thing again on May 5 (the *real* Cinco de Mayo!) and May 19 from 10:30-3:30 (south end of the ballroom on the 5th and the Eldorado room on the 19th). If you want to see what a card shark's teeth look like, this is the place — they smile a lot!

A SUPER EVENING for the whole family is on tap for those who come out for Variety Night on May 3. A low-cost pizza/hot dog buffet is served starting at 5 p.m., and the Jules Verne classic, *20,000 Leagues Under the Sea*, lights up the big screen at 6. As usual, the movie is free.

ANOTHER SPLENDID SUNDAY brunch-tea dance is yours for the paying (\$5.95) on May 4. All kinds of delicious food on the buffet line from 11-2, and the Bob Banks Trio provides easy listening/dancing music from 1-3.

CORONADO AQUATIC CLUB boosters are scheduled to meet at 11 a.m. on May 5. CAC's swim team, for young C-Club members ages 4-18, participates in eight swim meets in June and July. CAC members practice from 7:45-8:45 each weekday morning during the summer. It's not all work, though; members get in on at least three team parties during the season, plus a watermelon bust after each home meet! CAC sign-ups are scheduled for May 3, along with swim lesson sign-ups. Be sure to have your pool/patio pass in hand that day.

SPEAKING OF AQUATICS, wait'll you see the improvements at what was already the best pool/patio setup in Albuquerque, if not the whole state of New Mexico! A new children's pool, 16' by 40' and 2½' deep, will be ready for the kids

when the pools open on May 23. There's been a complete overhaul of the locker rooms, astroturf now covers the concrete around the pools, and a basketball court and new horseshoe pits have been installed. Combine all the new stuff with the existing two large pools, covered patio, picnic area, playground, spa, and volleyball courts, and you have one super facility! It's a terrific place to relax all summer — either during the day or after work. Stop by the recreation office to buy your 1986 pool/patio pass.

M IS FOR THE MANY THINGS she gave me, and now it's time to let her know it's all appreciated. Make your reservations now for the C-Club Mother's Day buffet on Sunday, May 11, from 11 a.m.-3 p.m. An extensive menu features Virginia baked ham with cherry sauce, carved baron of beef, whitefish, a variety of salads and fruits, corn O'Brien, green beans almondine, chateau potatoes, juices, eggs, sausage, hash browns, green chile, and a medley of desserts. It's only \$8.95 for adults, \$4.50 for children 12 and under, and free for children 2 and under. Call the Club office, 265-6791, to reserve your space for Mother's Day and/or any other time you're planning to eat dinner there.

TRAVEL — On the ball, Vern. Know what I mean? That's the C-Club Travel Committee, and its super planning job on this year's summer and fall trips! They're listening to you, and setting up some of those special vacations you've requested. Here are just a few:

White Water Rafting, July 2-6 — For the adventurers among you, here's a chance to meet and beat those Colorado River rapids! Included are three days of rafting through Cataract Canyon and gourmet campfire cuisine along the way. For \$483/person, you get round trip bus transportation, those rafting thrills, two nights accommodations at Moab (at beginning and end of rafting trip), and a charter flight back to Moab from Lake Powell after you've splashed your way down the river. Hurry on this one — there's space for only 40 explorers.

Pacific Northwest/Canadian Rockies, Aug. 14-24 — Gorgeous gardens, spectacular scenery in the Canadian Rockies, relaxing cruises on lakes and inland waterways, a day at Vancouver's EXPO 86, a night at Victoria's elegant Empress Hotel (maybe even high tea?), a tour of the Seattle Underground and dinner atop the Space Needle — this one has it all. Escape the dog days of August, and head for the cool Northwest. The \$948 tab includes round trip air fare to Seattle, 10 nights lodging, all admissions, charter bus for entire trip, fees for boats and ferries, three gala dinners, a SnoCat tour of the Columbia Icefields, etc., etc. Deposit \$100/person at sign-up; make payment in full by July 10.

Mesa Verde, Durango/Silverton, July 11-13 — You'll visit the cliff dwellings at Mesa Verde and ride the narrow gauge from Durango to Silverton during this popular trip, back by popular demand. Only \$176/person includes charter bus round trip, the Mesa Verde tour, two nights in Durango, two cocktail parties, BBQ dinner and Western show, narrow-gauge train ride, and more.

Fall Colors — See them in the Ozarks, Oct. 19-25; or Canyon de Chelly, Oct. 26-27. Details on these two in future issues.

Fall Gambling — Take some chances in southern Nevada's "little Las Vegas," Laughlin, and see London Bridge at Lake Havasu City, Oct. 13-16.

Community Focus Series

A Report on The State of The University

UNM President Tom Farer will present the next talk in the Community Focus series at the Technology Transfer Center on Wednesday, April 30, at 12 noon.

His talk, based on "The State of the University: A Report from the President," will address several issues critical to UNM as a knowledge-producing institution under financial siege.

First of all, the university's process of self-examination — the most extensive since World War II — is exemplified by the ongoing efforts of the 70-person Strategic Planning Committee. Secondly, UNM is intent on responding to community needs — including the maintenance of its athletic program. The university has also openly expressed its interest in establishing new links to other research-oriented centers of higher learning in the state, and to Sandia and Los Alamos national laboratories.

Farer, who took the helm at UNM on Jan. 1, 1985, graduated magna cum laude from Harvard with an LL.B. His academic credentials include professorships of law at Columbia and Rutgers.

His public service has been diverse: in 1975 he served as special assistant to the Assistant Secretary of State for Inter-American Affairs and was the only U.S. citizen to serve as president of the Inter-American Commission on Human Rights (from 1980-82). He also has been a fellow of the Woodrow Wilson International Center, the Carnegie Endowment, and the Council on Foreign Relations.

In the private sector, he is on the boards of directors of New Mexico Technet and Riotech.

Farer has authored four books, four monographs, and numerous shorter pieces for journals, magazines, and newspapers.

President Irwin Welber will introduce Farer to the Sandia community.



TOM FARER, UNM's president, focuses on the future in his upcoming talk at the TTC. The university is looking for synergistic collaboration with federally funded laboratories, including Sandia and Kirtland's Air Force Weapons Lab.